

AMENDMENTS TO THE DRAWINGS:

Accompanied herewith are amendments to the drawings. The amendments address clerical errors, such as reference numerals that correspond to the text, with changes presented on the annotated sheets. Replacement sheets are also submitted. No new matter has been added.

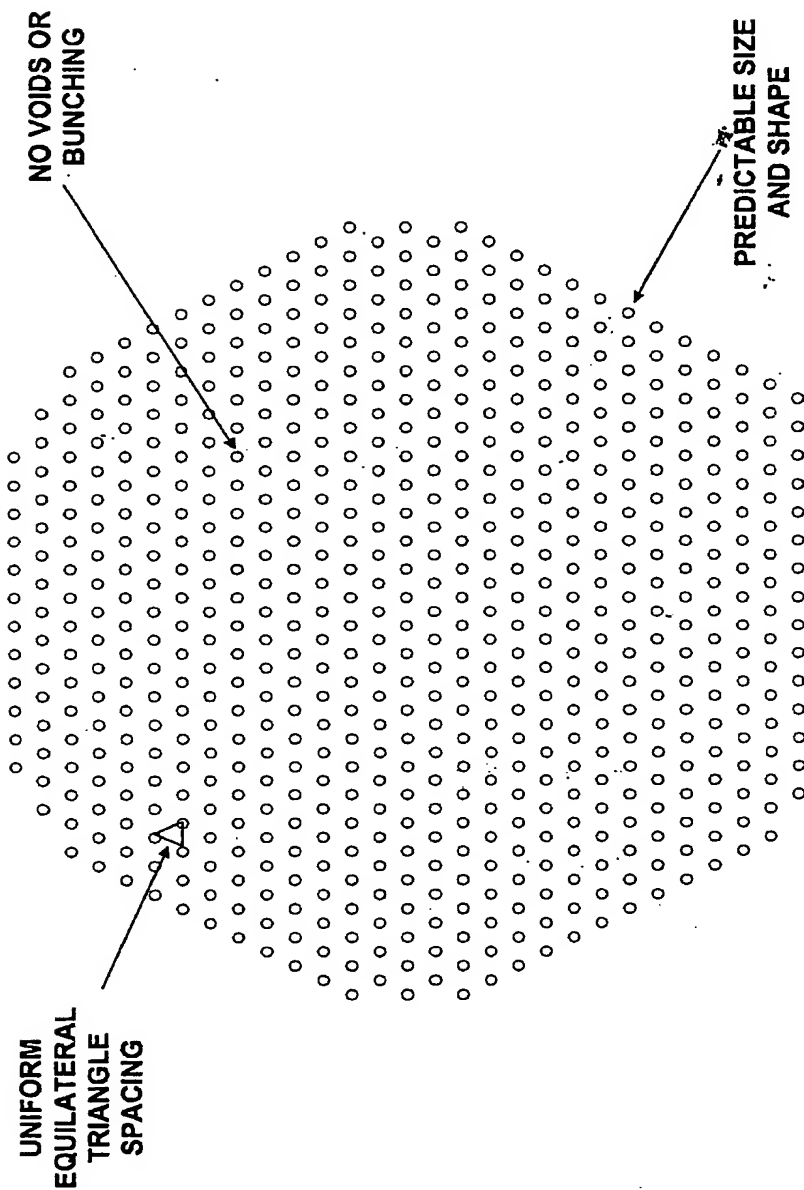
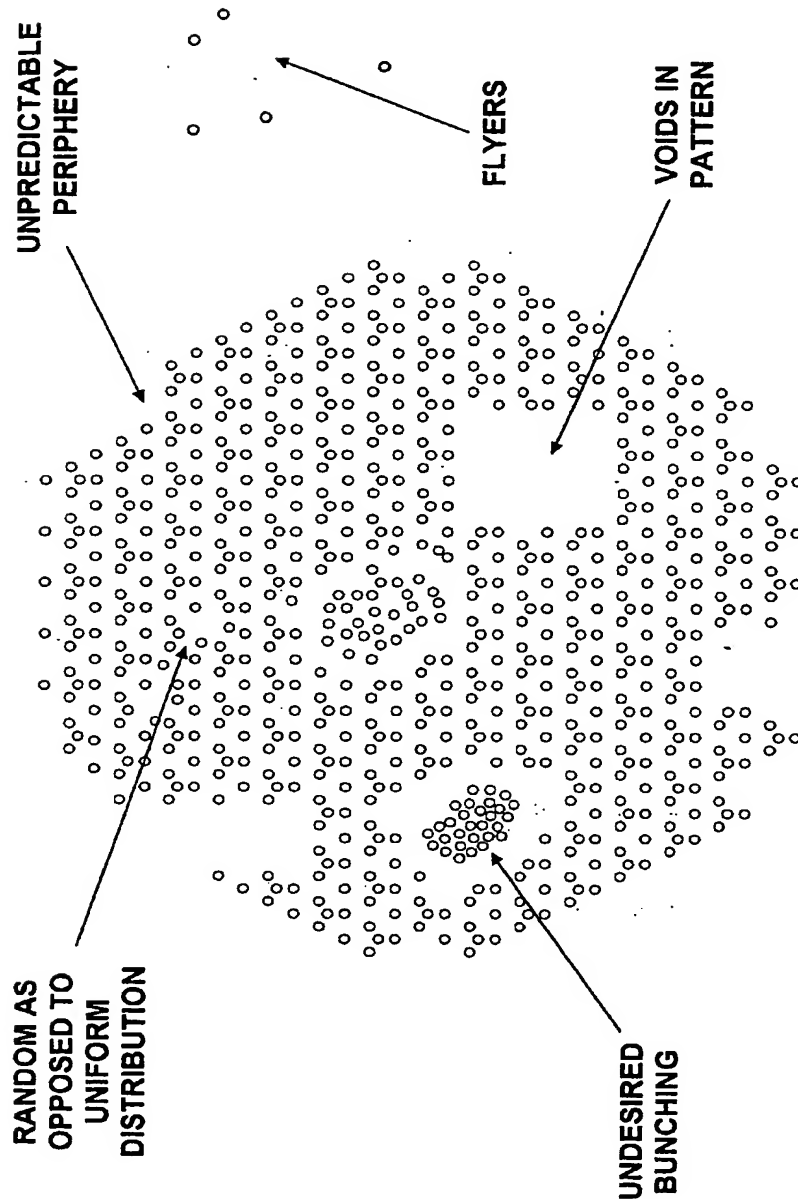


FIGURE 1. IDEAL PROJECTILE PATTERN—FIG. 1



PRIOR ART
FIG. 2

~~FIGURE 2. PRIOR ART TYPICAL PATTERN~~

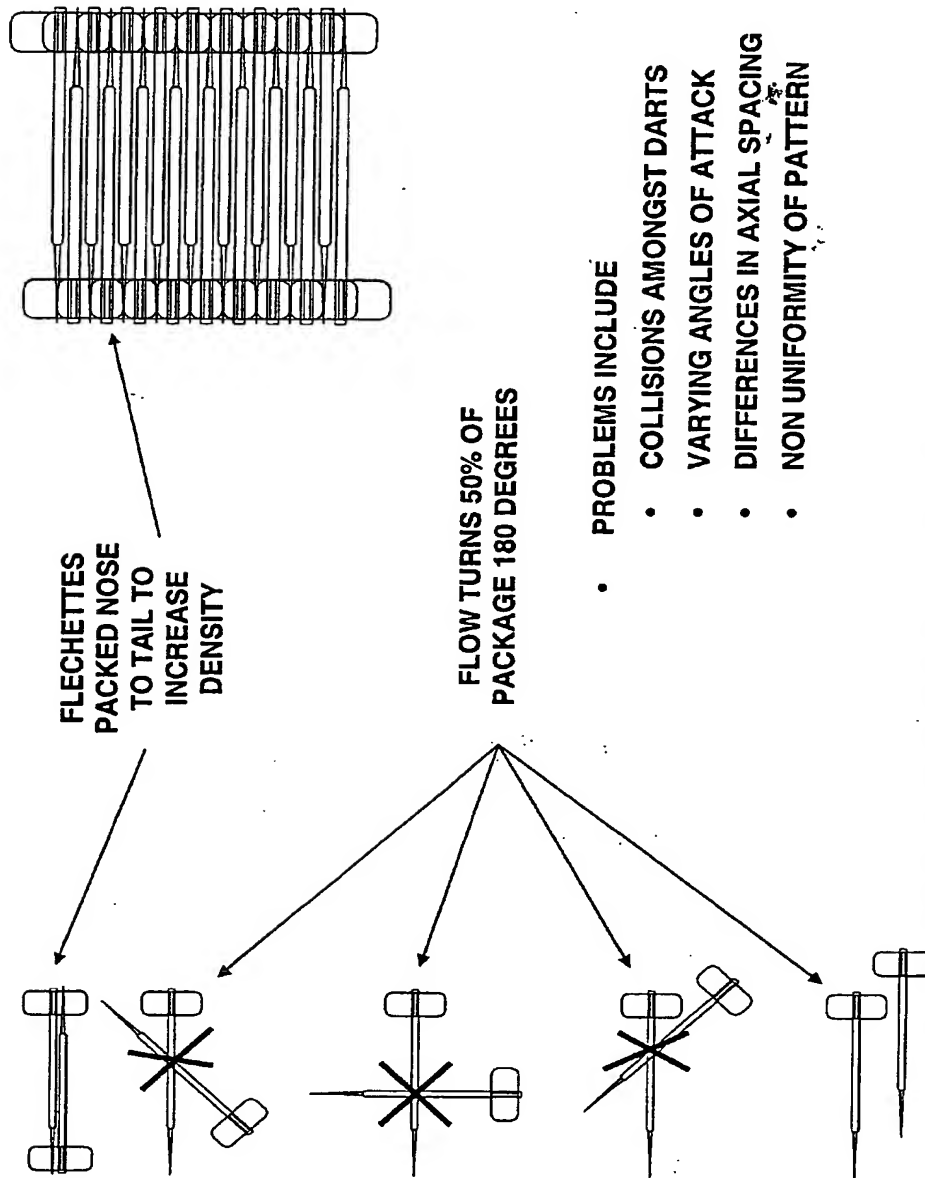
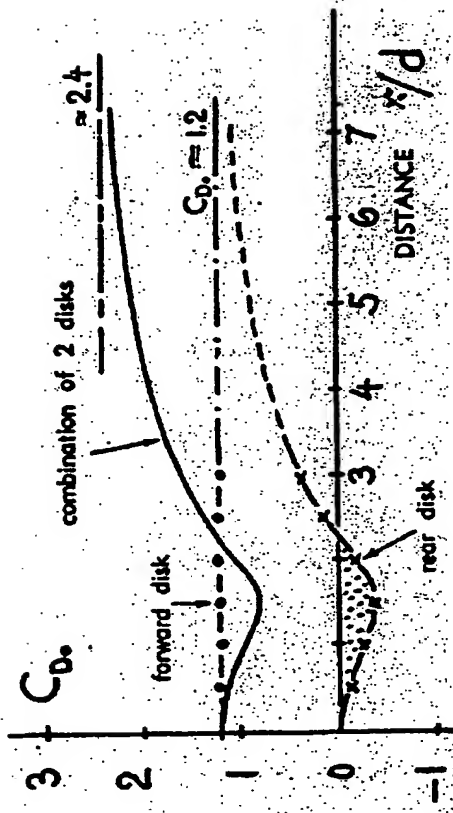


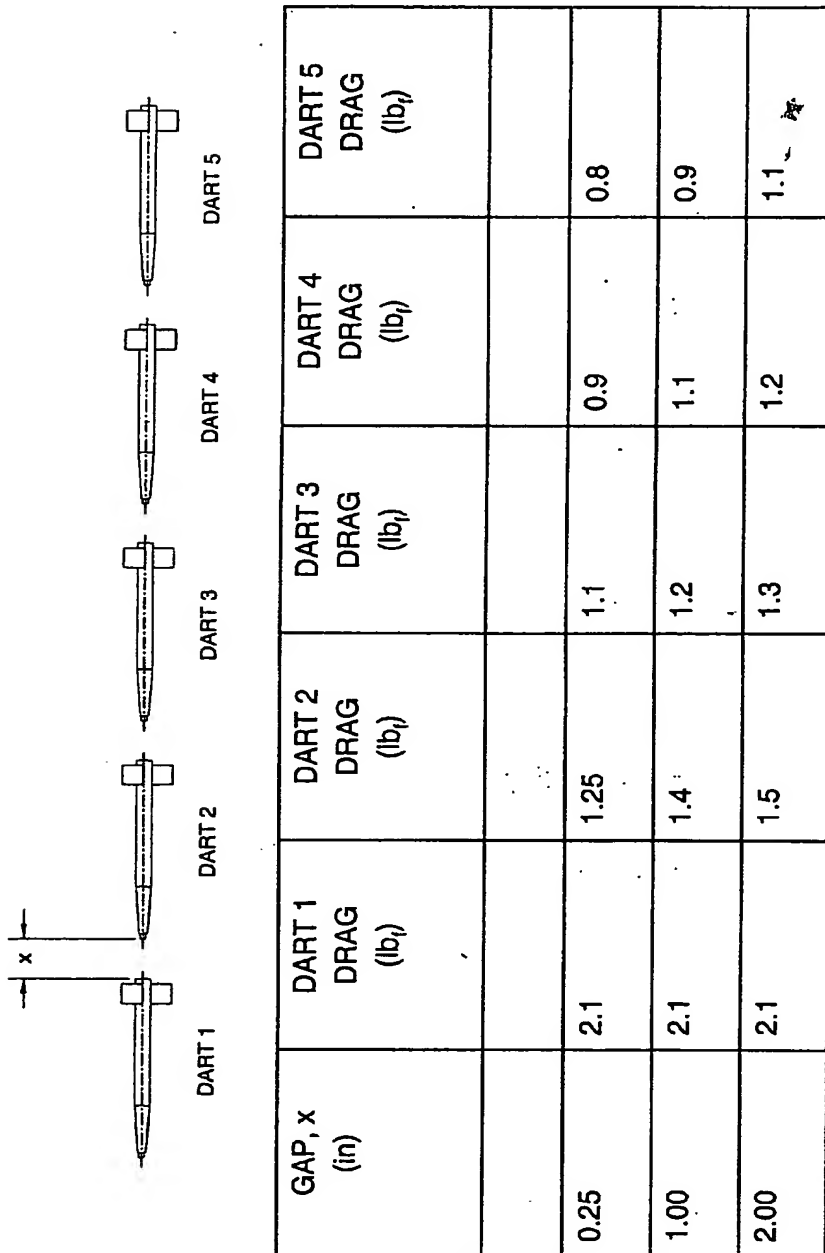
FIGURE 3. NOSE TO TAIL FLECHETTE PACKING *Fig. 3*



GENERAL TRENDS

- FOR SEPARATIONS WHERE $x/d < 2.2$ THE DRAG ON DISK 2 IS ACTUALLY NEGATIVE
- DRAG ON DISK 2 ASYMPTOTICALLY APPROACHES ITS FREE AIR DRAG AT $x/d \approx 7$

PRIOR ART
 FIGURE 4. GENERAL DRAFTING TRENDS FIG. 4

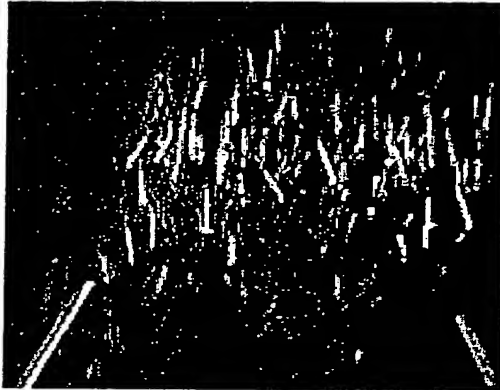


Dart Velocity = 1500 ft/sec, Dart Mass = 35 g

FIGURE 5. AERO DRAFTING MODEL RESULTS

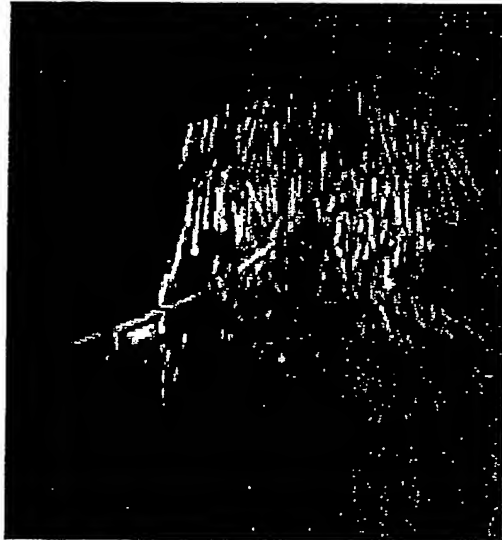
Fig. 5

SEPARATION = -3.00



t = 64 ms

SEPARATION = -0.50



t = 56 ms

SEPARATION = 0.25 in



t = 40 ms

FIGURE 6. TEST SHOWING DRAFTING PROBLEM F/g. 6

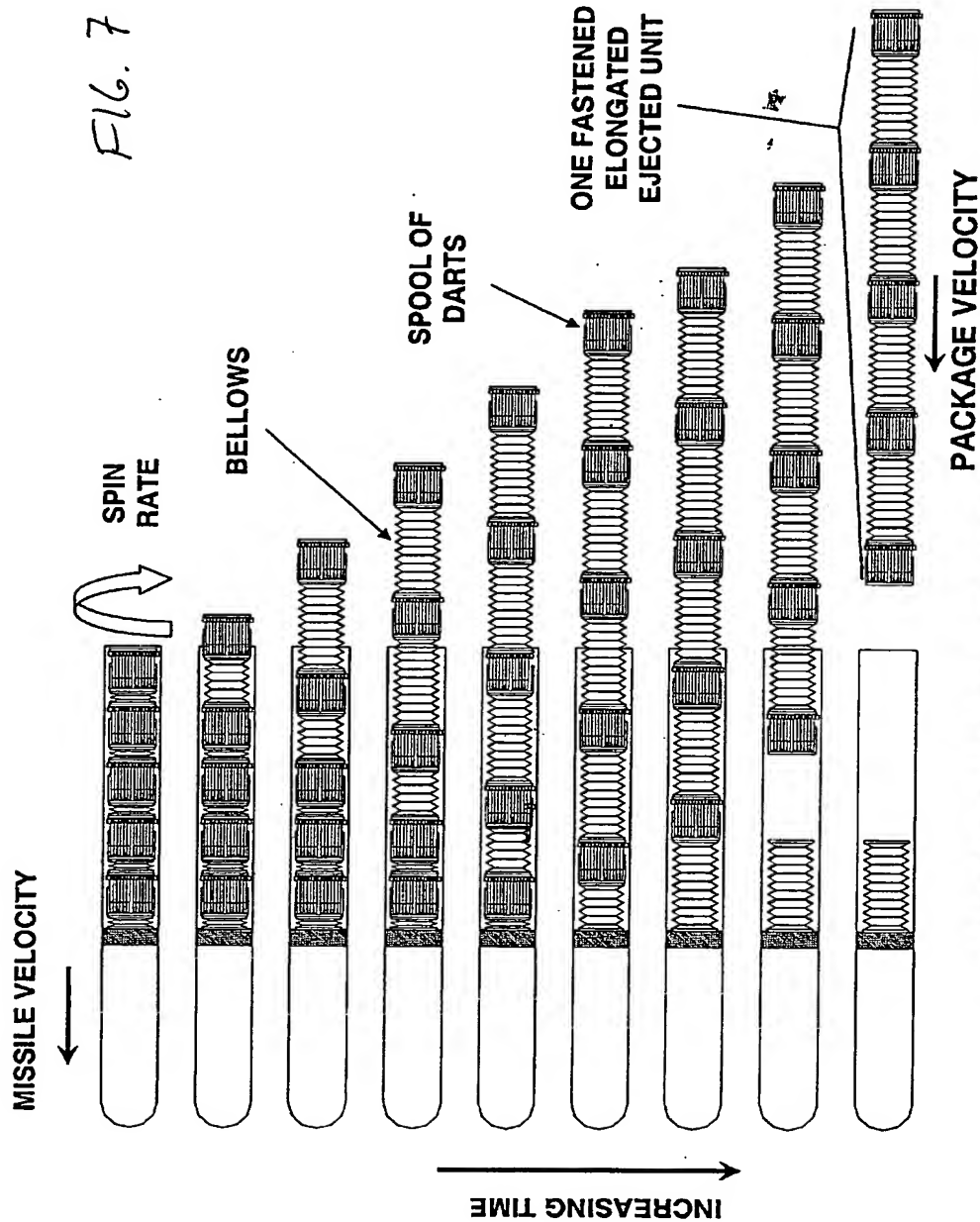


FIGURE 7. INTEGRATED BASE-EJECTION-

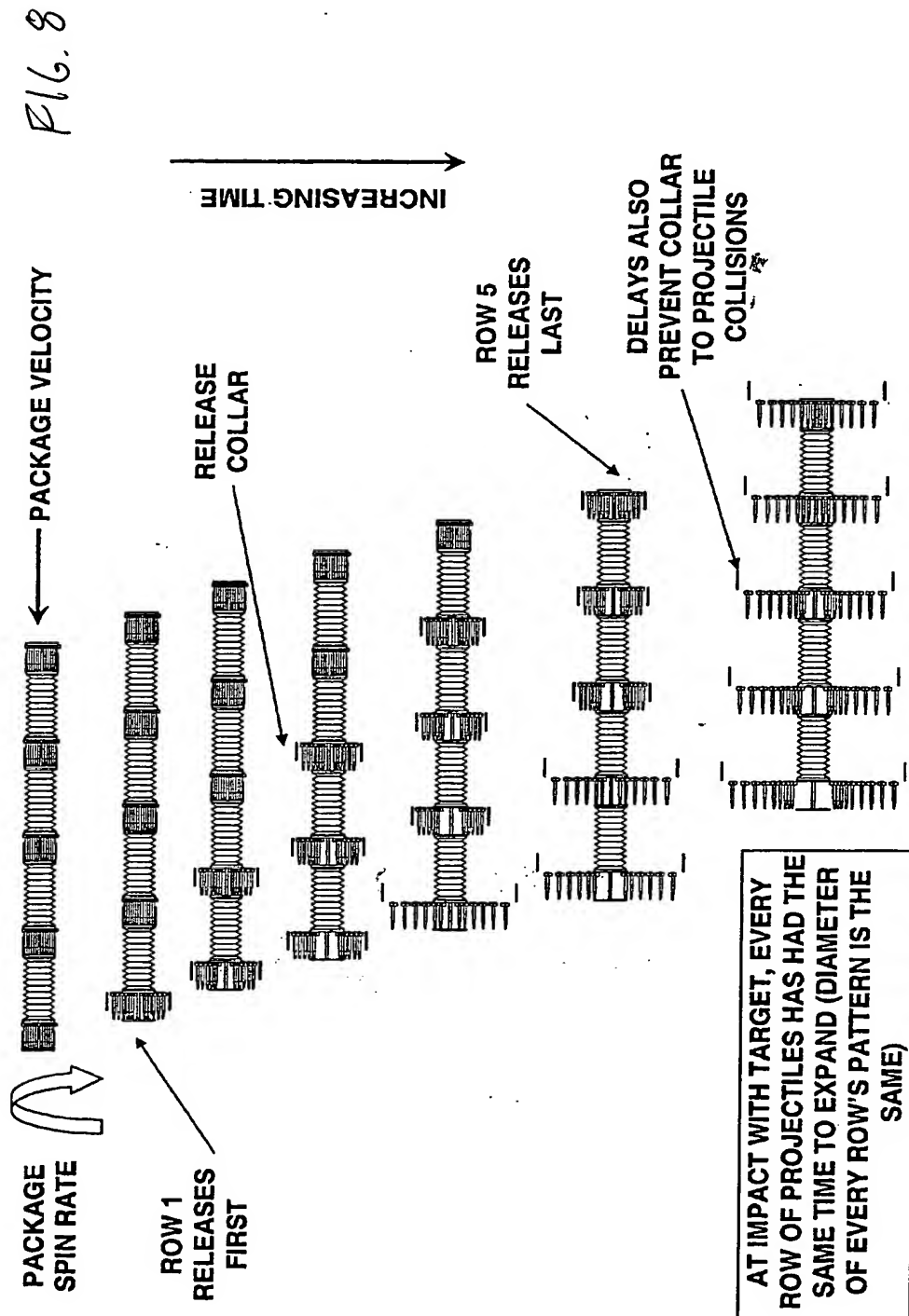


FIGURE 8. DELAYED RELEASE (INTEGRATED)

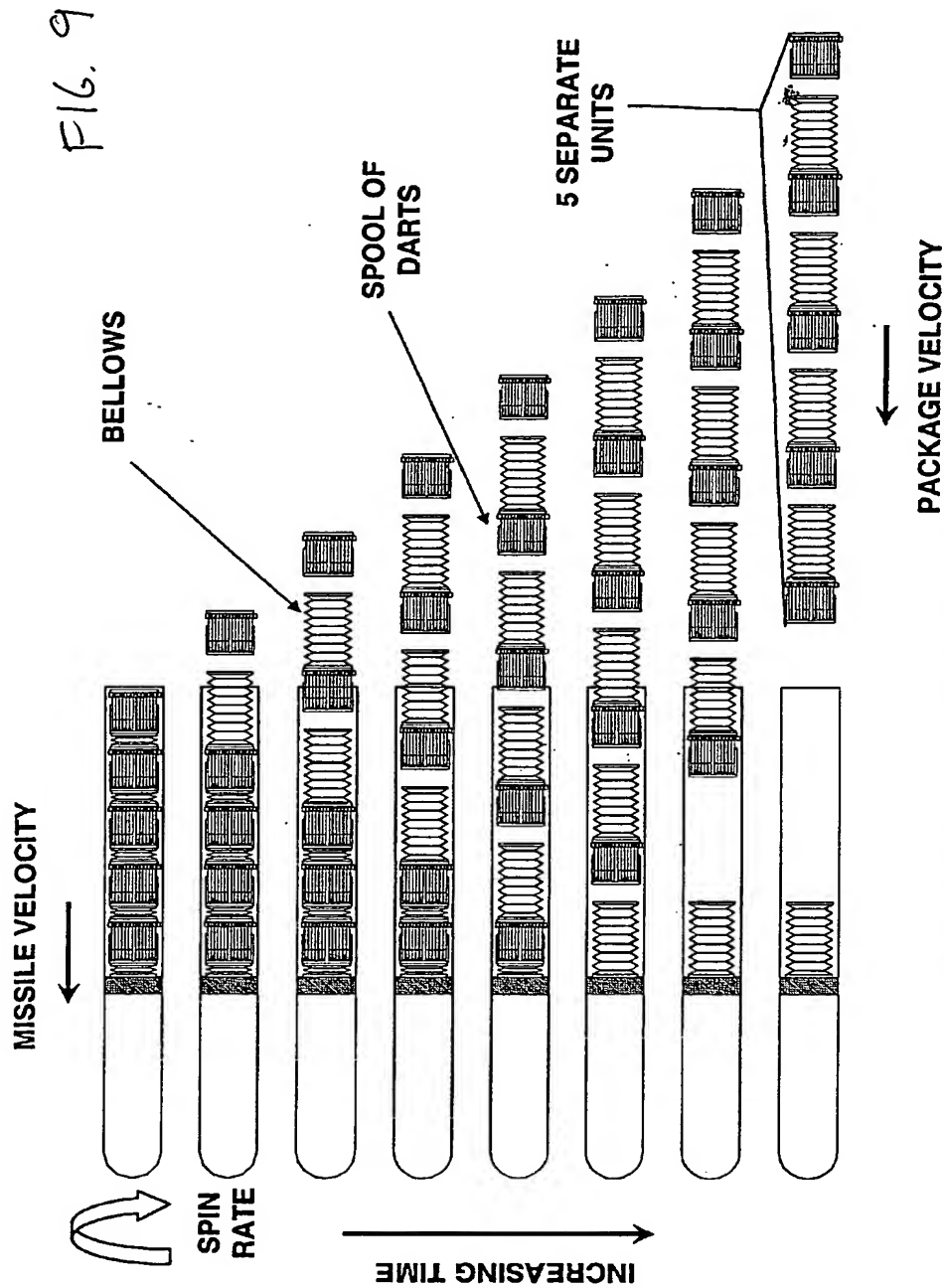


FIGURE 9. DISCREET BASE EJECTION

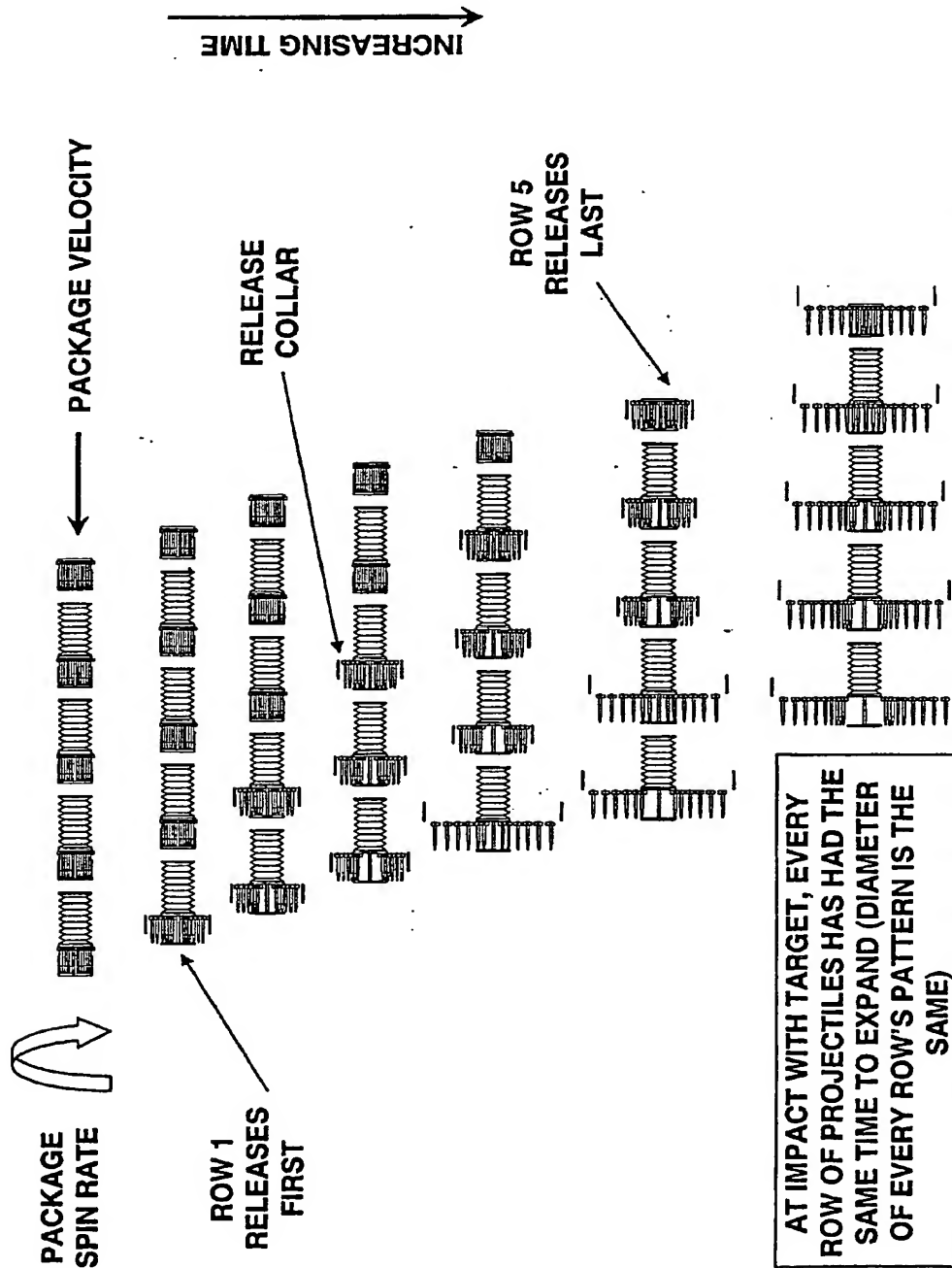


FIGURE 10. DELAYED RELEASE (DISCREET)

FIG. 10

TEST ARTICLE SECTIONS

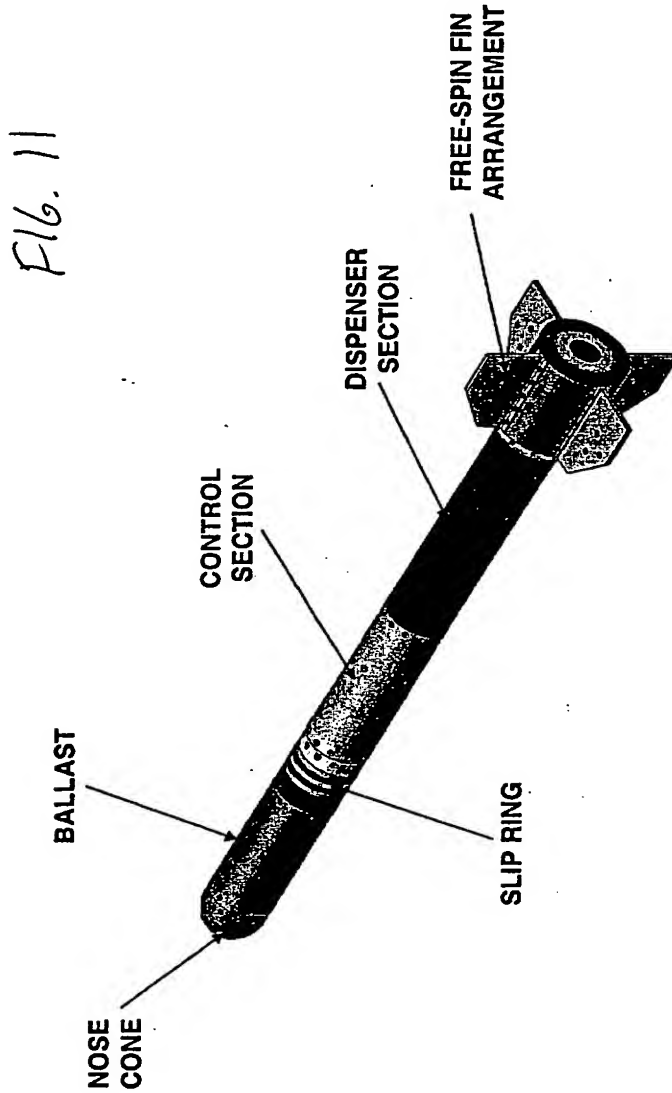


FIGURE 11. HYDRA-7 SLED TEST ARTICLE

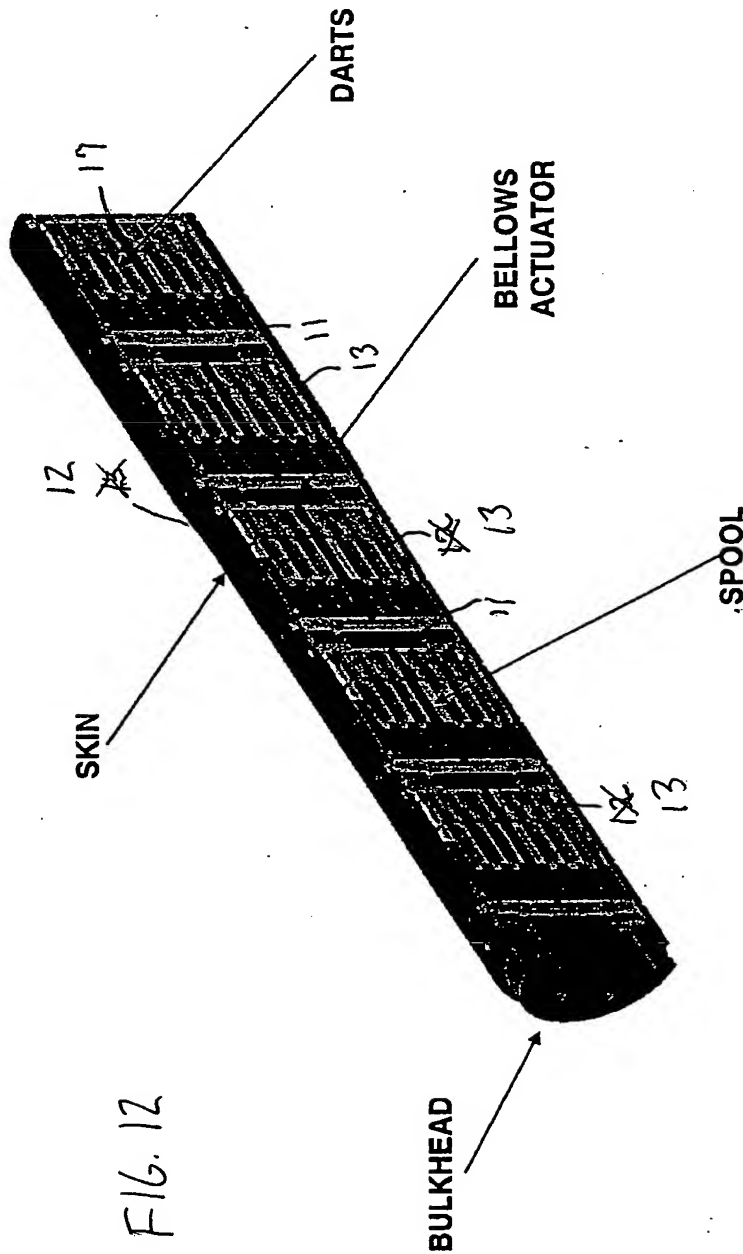


FIGURE 12. DISPENSER INBOARD PROFILE

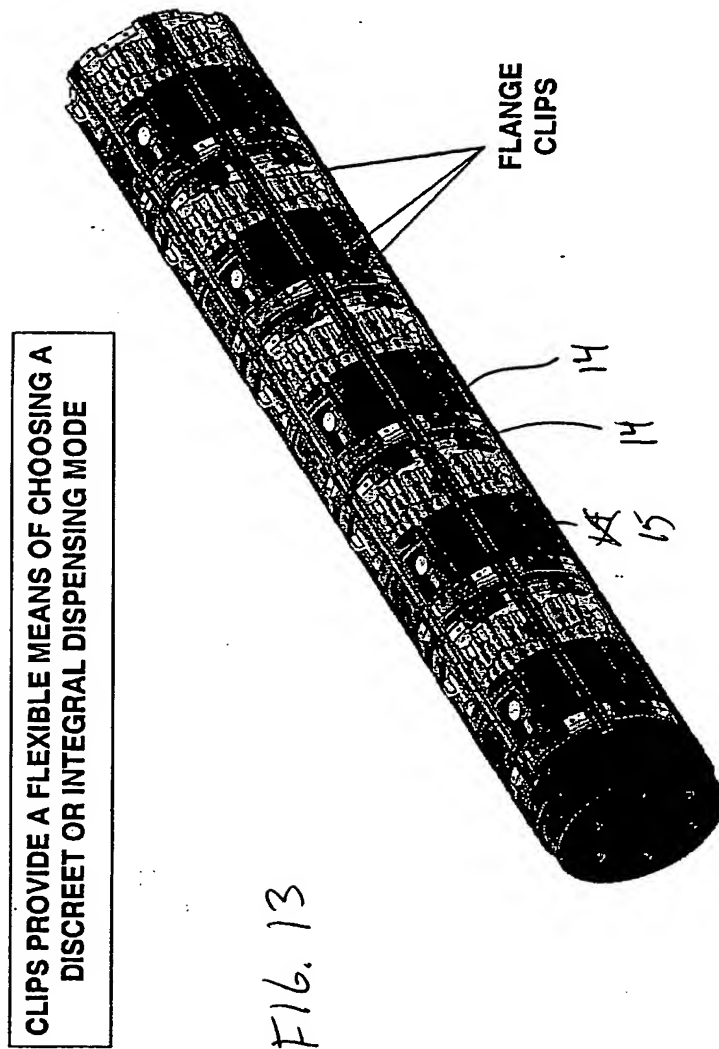


FIGURE 13. ATTACHMENT METHOD.

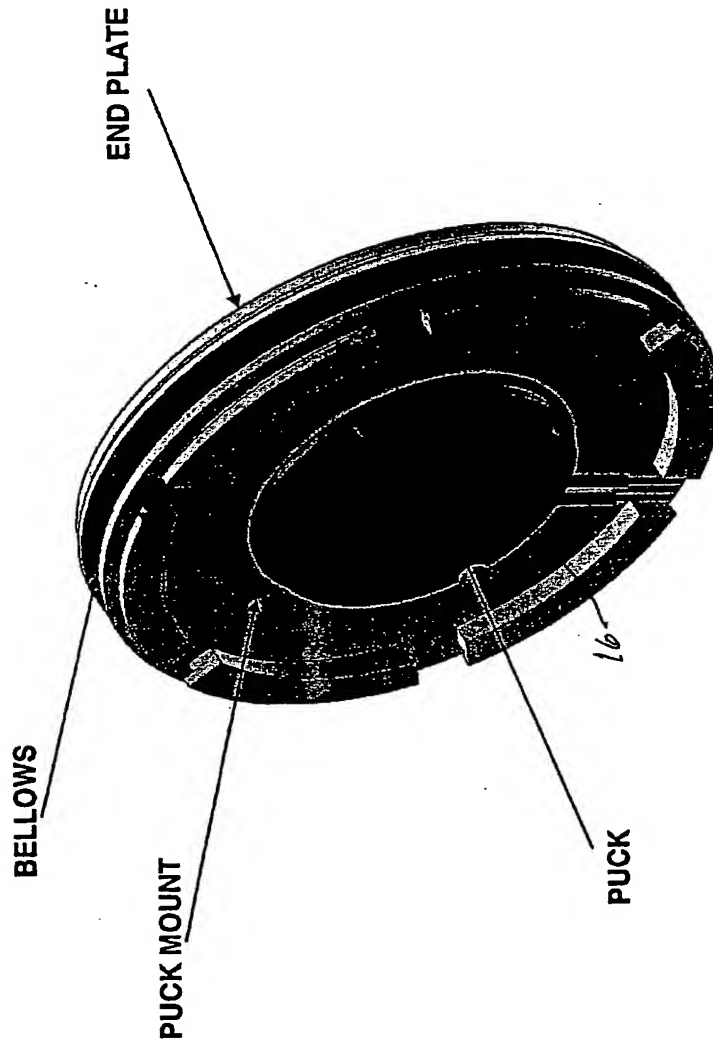


FIG. 14

FIGURE 14. ENERGETIC BELLOWS ACTUATOR

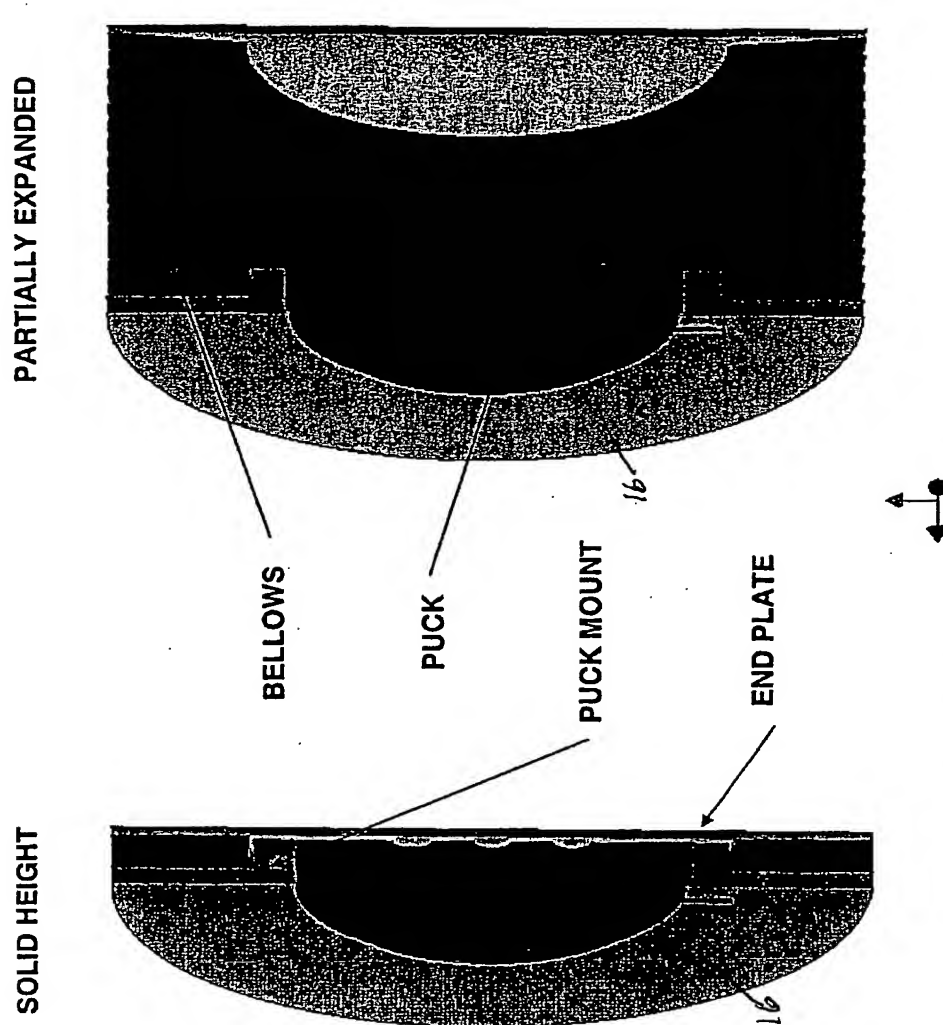


FIGURE 15. SECTIONED BELLOWS ACTUATOR

FIG. 15

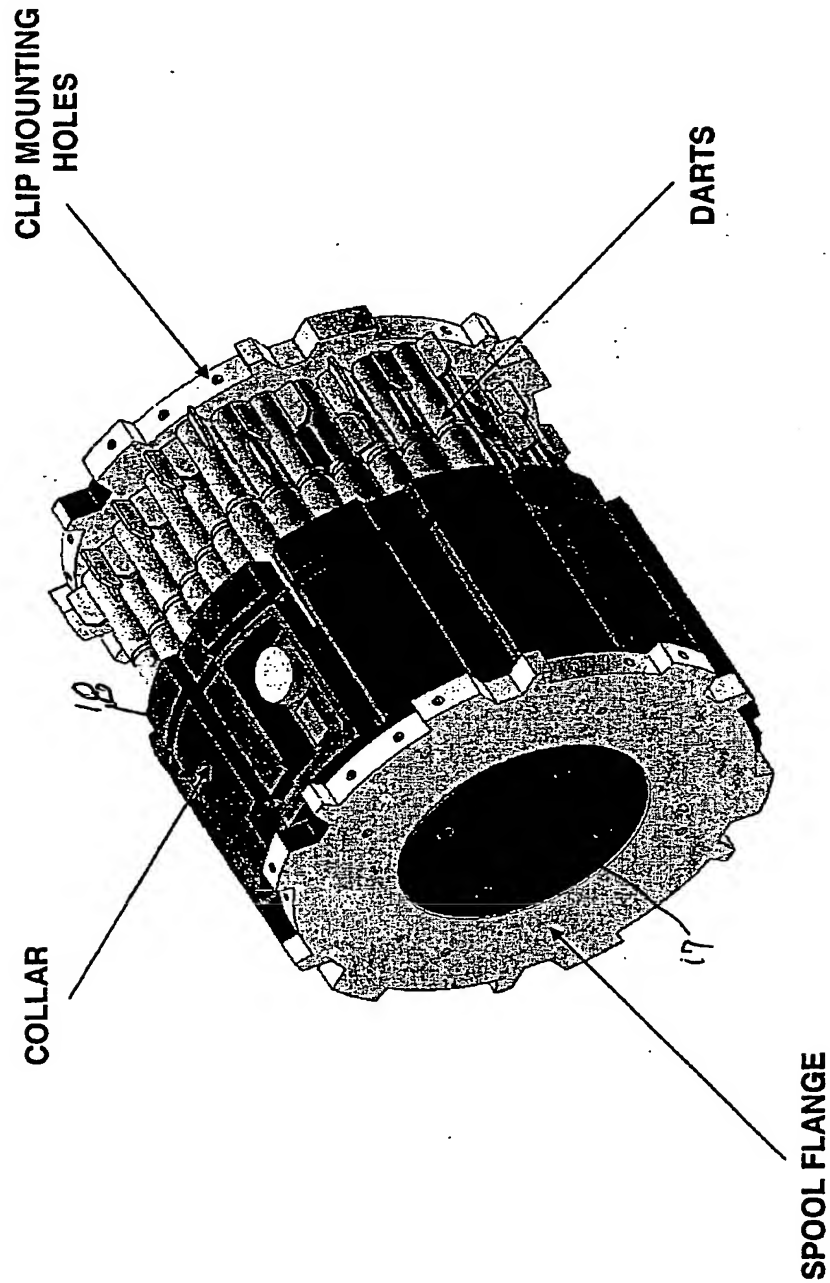


FIGURE 16. SPOOL ASSEMBLY

FIG. 16

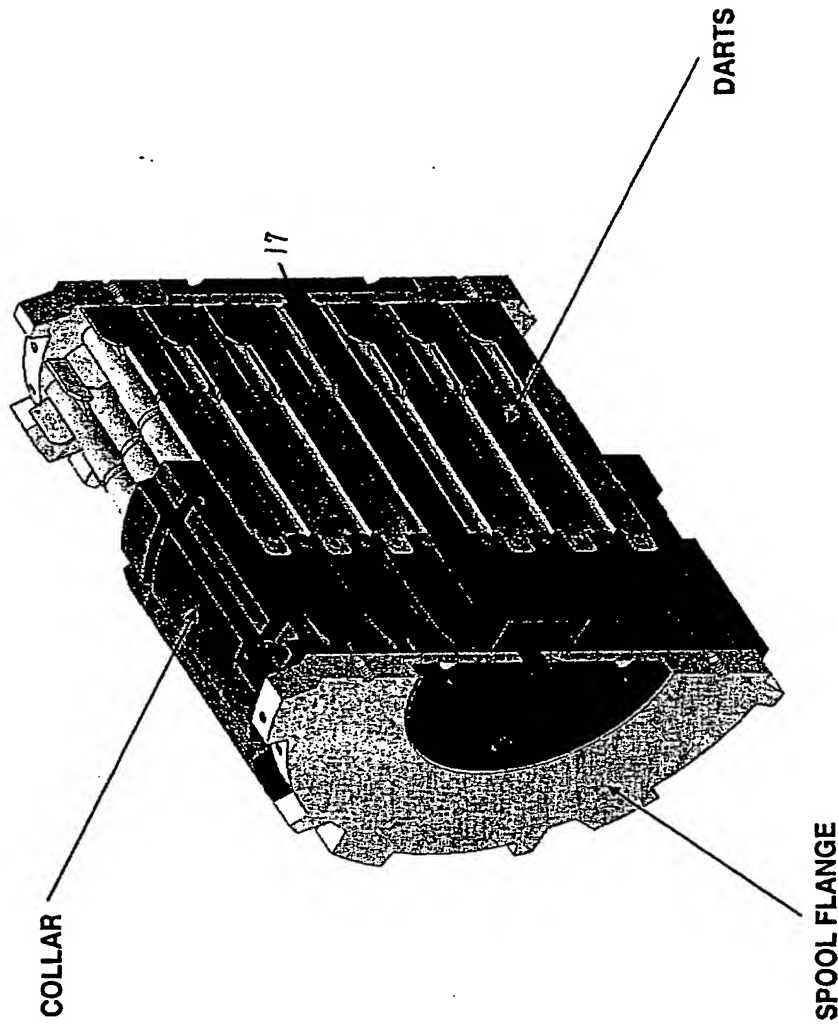


FIG. 17

FIGURE 17. SECTIONED SPOOL ASSEMBLY

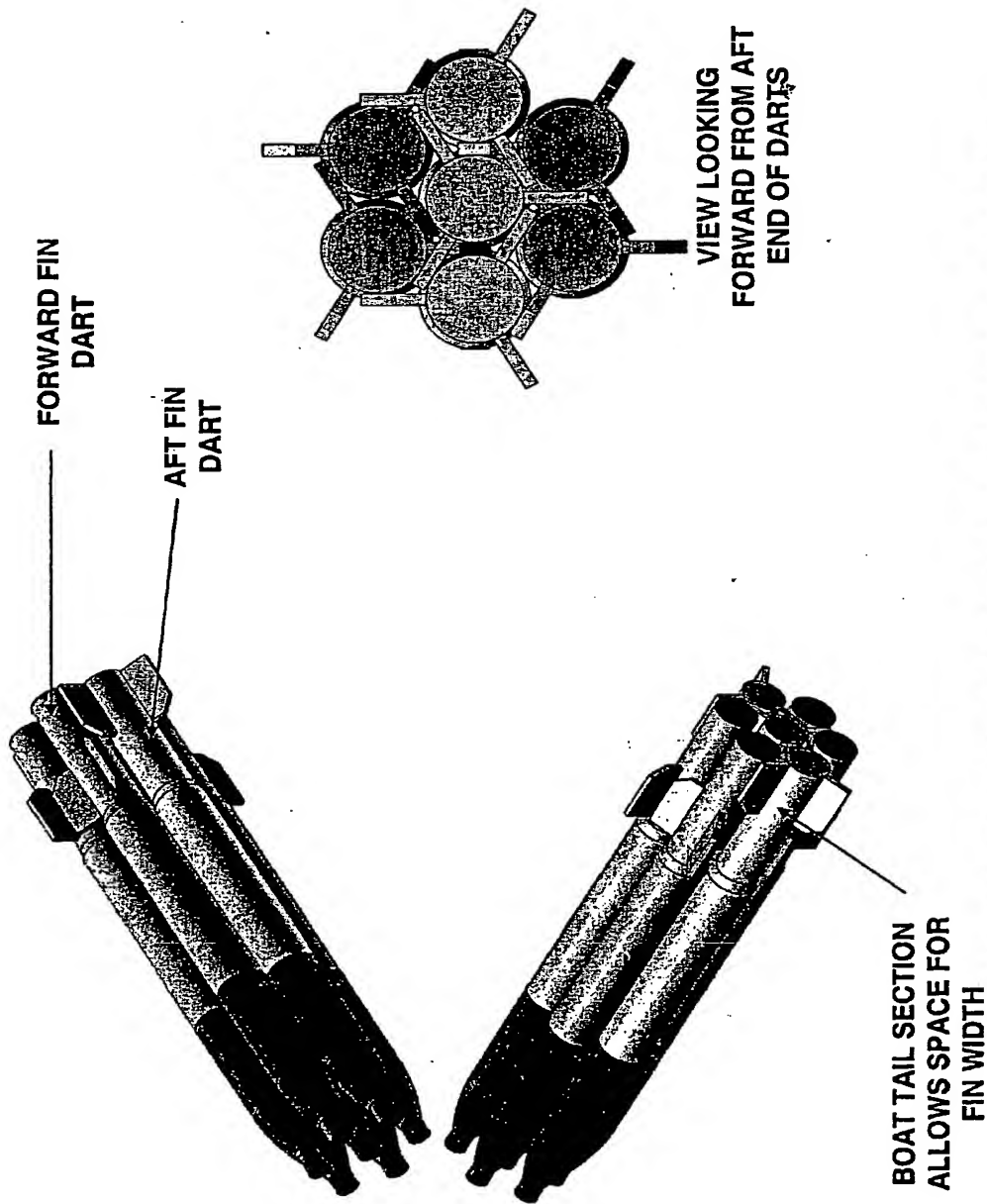


FIGURE 18. TRUE TANGENT PROJECTILE PACKING

Fig. 18

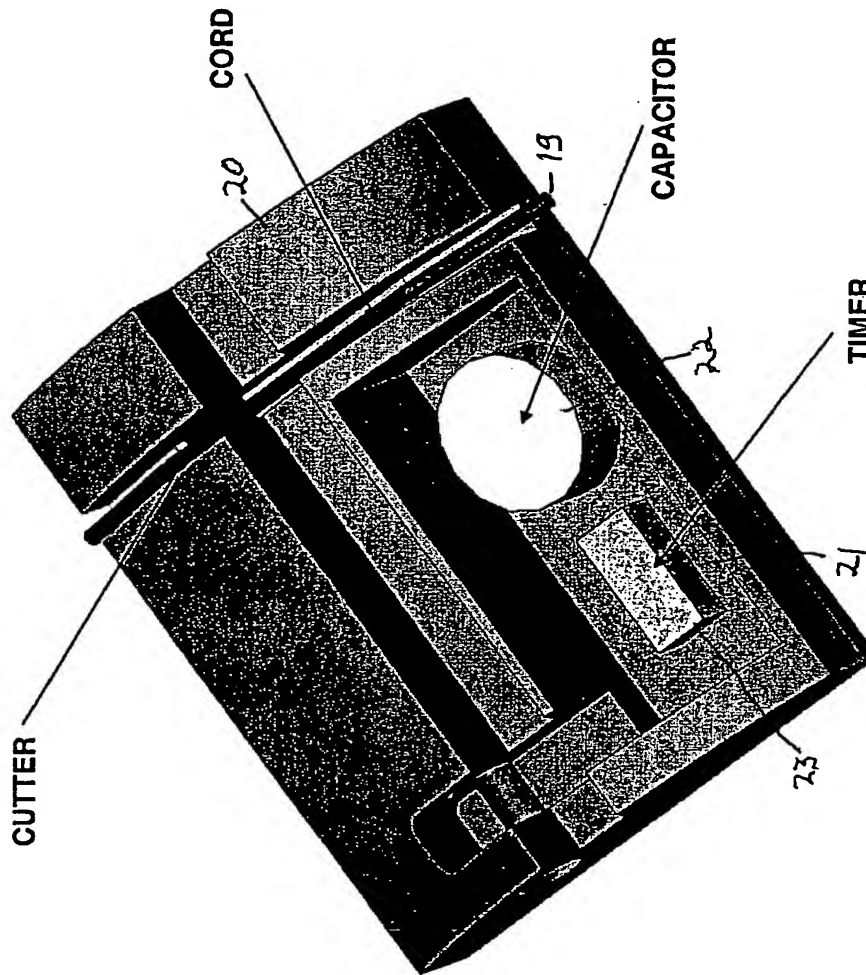


FIGURE 19. SMART COLLAR ASSEMBLY

FIG. 19

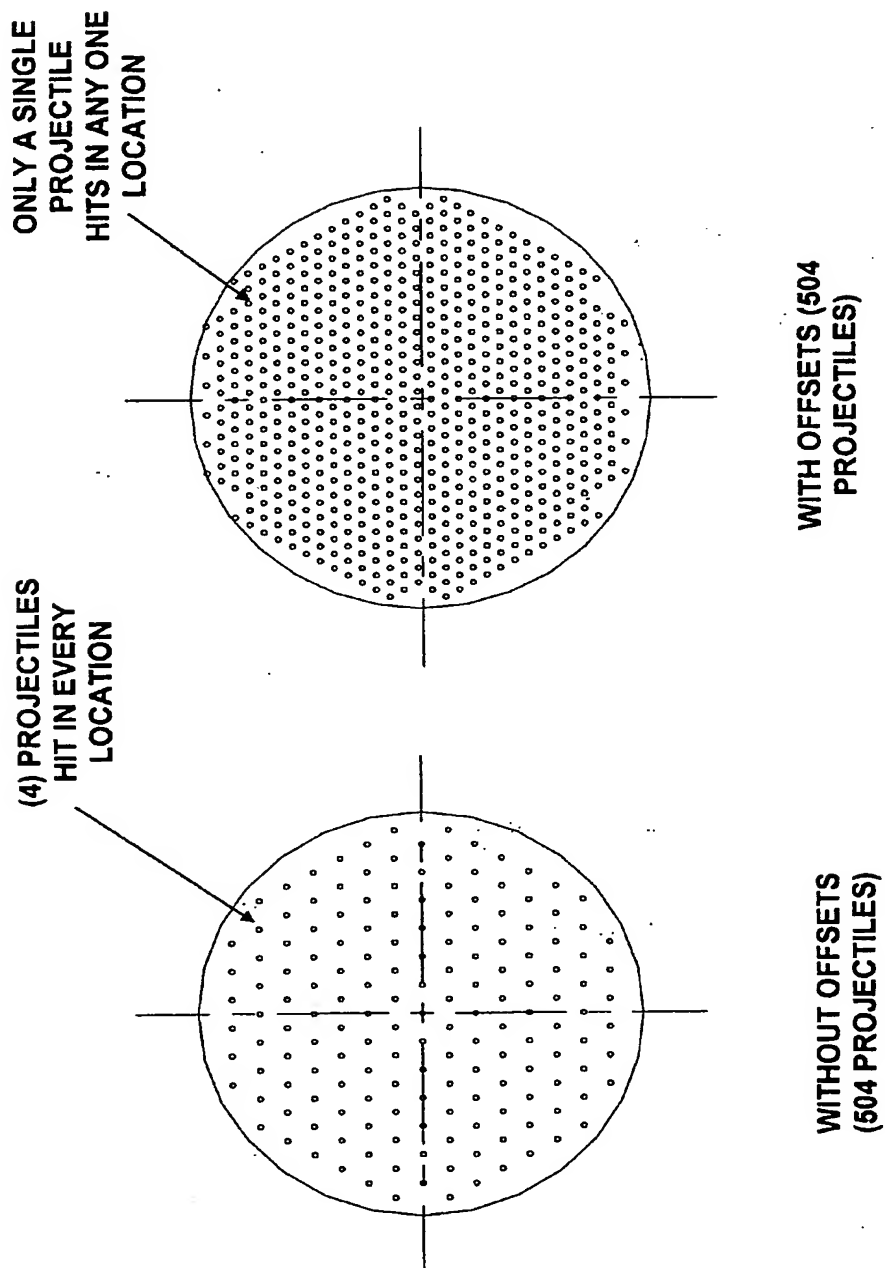


FIGURE 20. PROJECTILE PATTERNS

FIG. 20

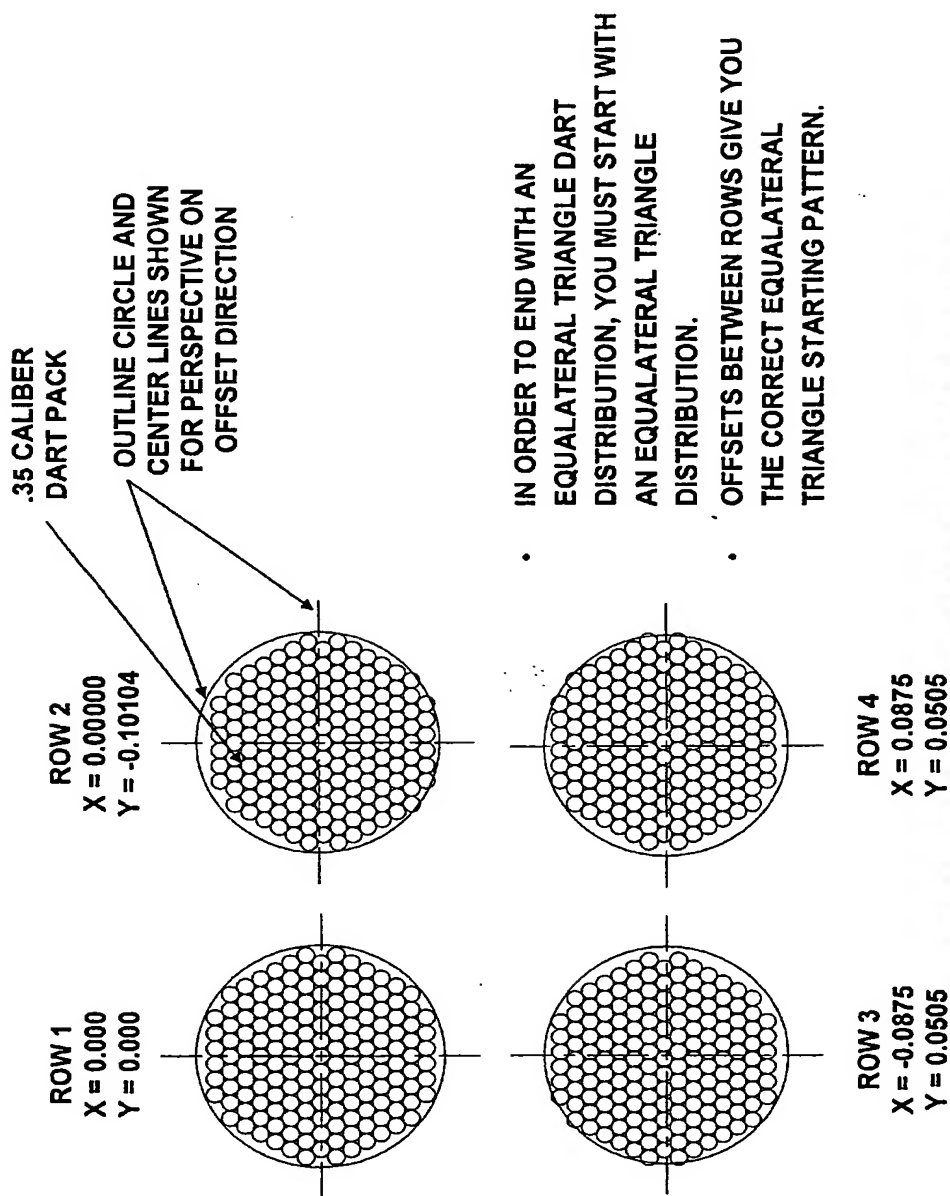
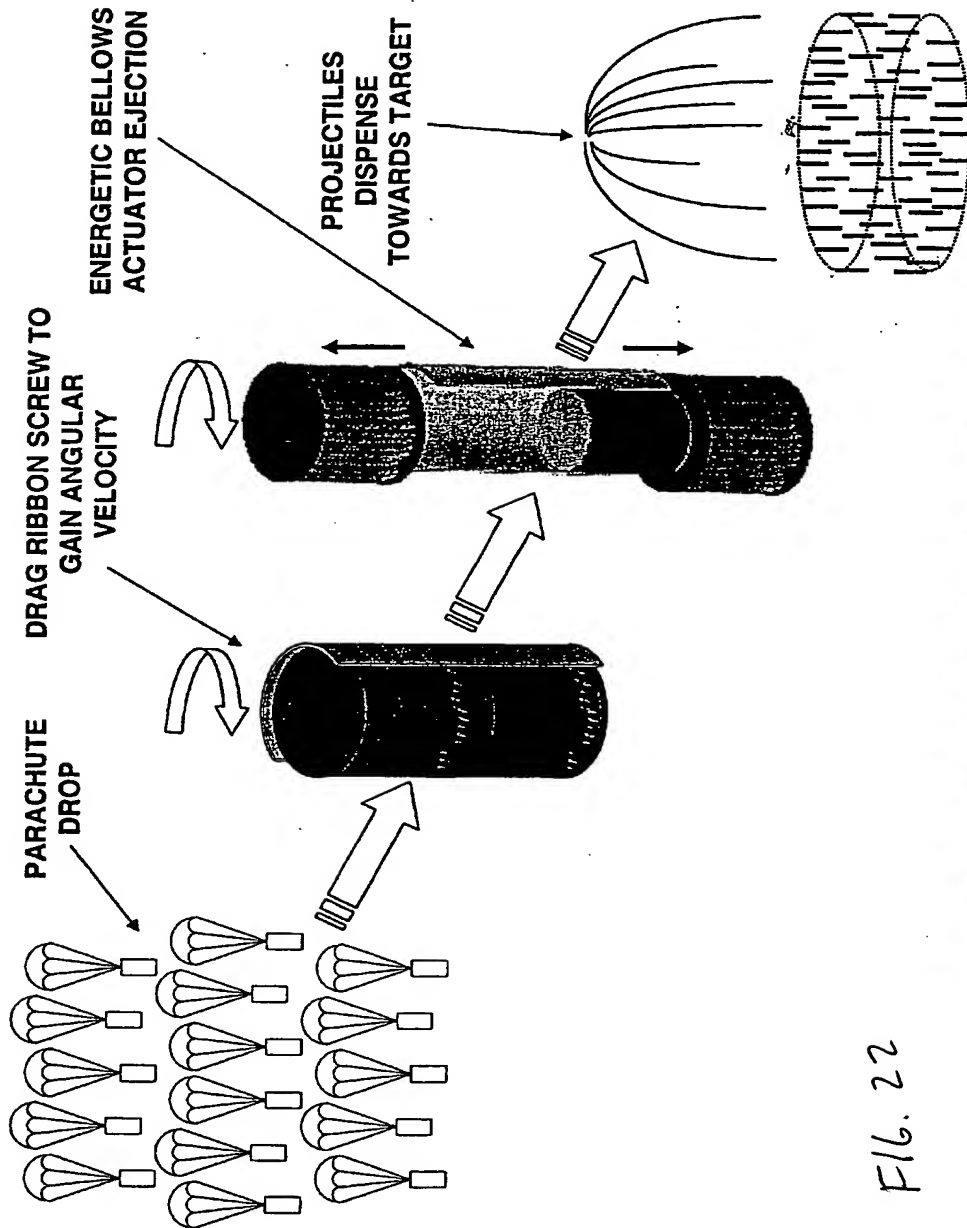


FIGURE 21. PROJECTILE ROW OFFSETS

Fig. 21



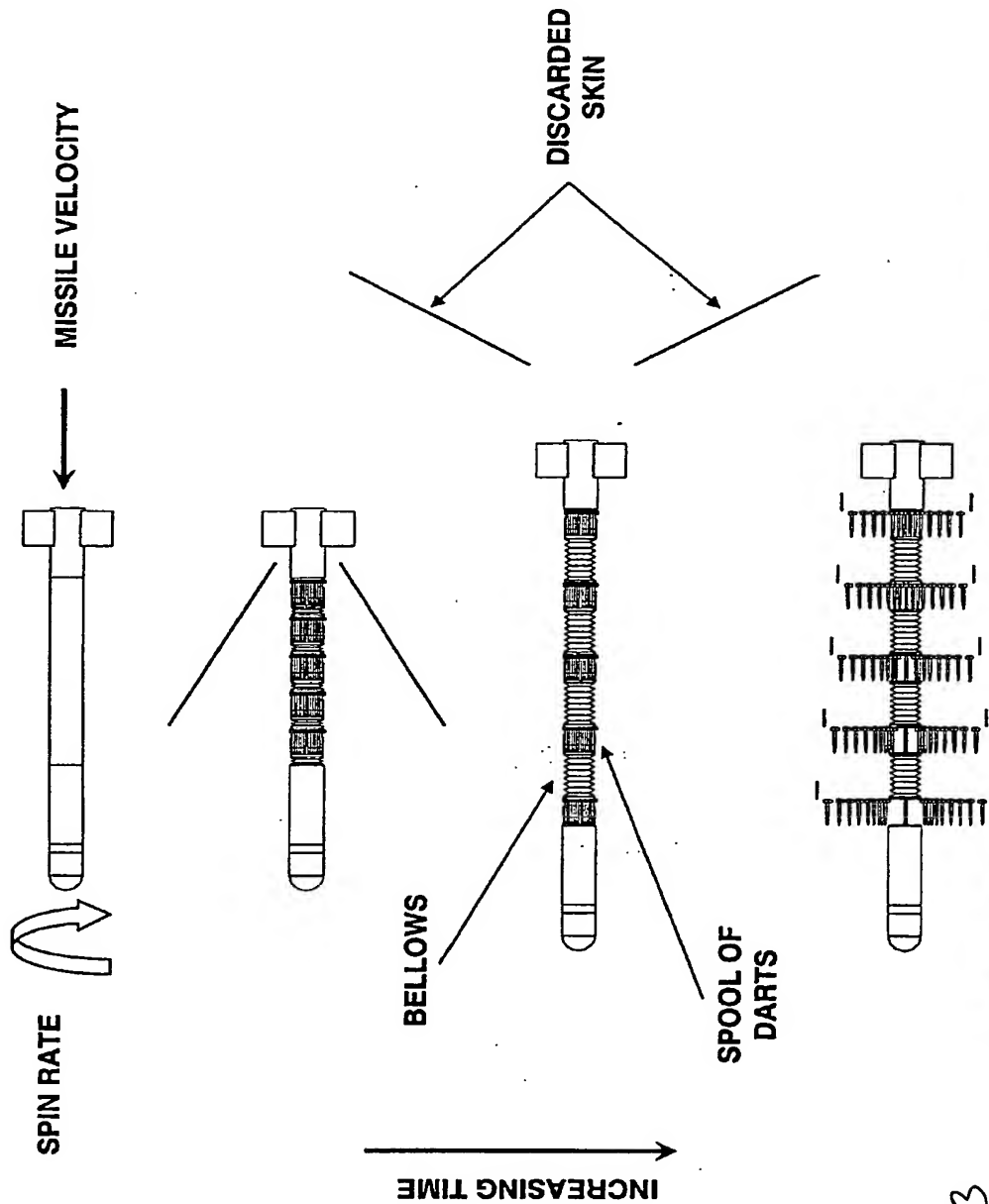


FIGURE 23. MISSILE ELONGATION CONCEPT

Flg. 23